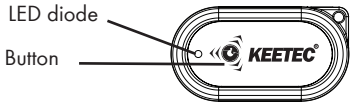
SYSTEM DESCRIPTION

The KEETEC TS IMO is anti-theft system with smart detection and two circuits of immobilization dedicated for vehicles with 12V power supply. TS IMO use 2 modes of system deactivation: by button on transmitter or by contact less transmitter - automatically if transmitter will be in range or system may be deactivated via E-card. Second mode use both - transmitters and E-card together.

DESCRIPTION OF BUTTONS OF TRANSMITTER



Button	Function	Condition	Indication
Press the button once	system deactivate	system is activated	LED will flash quickly
Fast press 3 times button then 2 sec. hold	Turn on/off auto transmit function	anytime	LED will flash once (turn on) or twice (turn off)
Fast press 2 times button then 2 sec. hold	Set auto transmit power	anytime	The red LED will flash 1 or 2 or 3 or 4 times.

The transmitter includes motion sensor for motion detection and sleep mode activation. If transmitter is turned to auto transmit mode, sleep mode can dramatically extend the battery life. When transmitter has not move during 1 hour, sleep mode will be enabled. If motion will be detected, sleep mode is stopped and transmitter may transmit, again.

I. SYSTEM FUNCTION

AUTO ACTIVATION

a. In disarming mode, turn ignition OFF, the unit will go to auto arming mode automatically and cut relay would cut off immediately after 30 or 120 seconds (see function F1), ignition disabled, LED flash slowly (flash once per 2 seconds), LED will flash more slowly (flash once per 4 seconds) after 24 hours, and LED will off after 72 hours.

b. Door trigger alarm

1. function F3 - pre-set

When system in arming mode, open the door, system will start searching for the auto transmit for 120 or 30 seconds (see function F1). If the auto transmit has been located, system will unlock the circuits; if the auto transmit cannot be found, system status will no changed. Siren not hooting.

2. function F3 - adjustable

When system in arming mode, open the door, system will start searching for the auto transmit for 120 or 30 seconds (function F1). If the auto transmit has been located, system will unlock the circuits; if the auto transmit cannot be found, horn will start long sound every 1 second. System will count down the 30 seconds, horn will stop after completing the 30 seconds sounding. Close the door and Open the door again; system will be triggered again (maximum 8 times).

c. When the system in arming mode and ignition is turned on, system will start searching for the auto transmit for 15 seconds. If the auto transmit cannot be found, horn will start long sound every 1 second. System will continue the 30 seconds. Turn ignition to on again, system will be triggered again (maximum 8 times).

d. When the system in arming mode, LED will flash quickly when trigger alarm, LED will flash slowly when alarm was stopped (flash once per 2 seconds).

e. In disarming mode, open the doors to enter arm mode even, unit will bypass doors trigger. LED flash quickly. LED will flash more slowly (flash once per 4 seconds) after 24 hours, and LED will off after 72 hours.

SYSTEM DEACTIVATION

a. When the system in arming mode, when the door is open and system will start searching for the auto transmit or E-card for 120 or 30 seconds (function F1). If the auto transmit or E-card has been located, system will disarm, LED will turn off, and buzzer 2 time chirp. Engine can be started.

b. Press the button once, if the system was triggered, the buzzer will chirp 4 times, if not triggered, the buzzer will chirp twice. The system will be disarmed, LED off.

Low power indication for transmitter

If transmitter's power is lower than 2.8V, then auto transmit has turned to ON, the transmitter LED will flash twice every 1 second, and anti-car jacking mode will be bypassed. The buzzer will chip 8 times when you press button and the unit is deactivate.

Note: when the battery has been changed to a new one, press button 1 once to stop low power indication.

Turn ON/OFF auto transmit function

Anytime, fast press the button 3 times then press and hold it for 2 seconds, LED will flash once slowly to indicate auto transmit has been turned to on, LED flashing twice slowly to indicate auto transmit has been turned to off. Not necessary push the button when auto transmit is turned on, because immobilizer is deactivate automatically if transmitter is in range of main unit.

Set auto transmit power

Anytime, fast press the button twice and then press and hold it for 2 seconds, to set the auto transmit power is grade I or II or III or IV.

The red LED will flash 1 or 2 times or 3 times or 4 times for grade I or II or III or IV.

Note: The distance for Grade **I** is 1-2 meters, distance for Grade **II** is 2-3 meters, the distance for Grade **III** is 3-4 meters and the distance for Grade **IV** is 4-5 meters.

Transmit power grade and ANT location can be set freely as user need.

ANTI CAR-JACKING MODE (only during auto transmit mode)

When turn ignition ON, system will search the auto transmit in the following 75 seconds, if unit did not search the auto transmit 75 seconds, system will enter anti carjacking mode at once.

- The LED diode starts flashes slowly, and once pre 2 second buzzer beep.
- After next 30 seconds the LED flashes faster.
- After next 15 seconds buzzer will beep faster and LED flashes quickly.
- After next 30 seconds buzzer will sound continuously and immobilizer will be activated (engine will be stopped).

Immobilizer will be automatically deactivated, if transmitter will be in range or by emergency deactivating process.

II. PIN CODE CHANGE (factory preset PIN NUMBER: 4321)

- System is deactivated, turn on the ignition and push the valet button 10 times within 10 seconds.
- Turn the ignition off. Enter security mode.
- If you entered correct PIN code, siren will sound 1 time and LED diode lights no longer.
- Now you are in PIN programming mode.
- LED starts flashing and you can enter a new PIN code.
- if the LED will flash so many times which is the new value of first PIN number, push the service button one time. First PIN number is saved. LED will start to flash again.
- if the LED will flash so many times which is the new value of second PIN number, push the service button one time. Second PIN number is saved. LED will start to flash again.
- if the LED will flash so many times which is the new value of third PIN number, push the service button one time. Third PIN number is saved. LED will start to flash again.
- if the LED will flash so many times which is the new value of fourth PIN number, push the service button one time. Fourth PIN number is saved.
- 5 seconds after entering the fourth code number LED diode will show the new PIN code with the number of flashes with 2 seconds pause between every number.
- Turn the ignition on or wait for 10 seconds after showing the new PIN code and system will automatically end the PIN code programming mode

Note: Keep your new PIN code in safe. In case of lost please contact your dealer.

III. SERVICE MODE

- System is deactivated, turn on the ignition and press service button 2 times within 8 second. Turn off the ignition.
- If security mode is not activated, siren/buzzer sounds 2 times and LED lights permanently. Service mode is activated.
- When security mode is activated (function F4), LED diode starts flashes slowly. Enter security mode.
- if the LED will flash so many times which is the value of first PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of second PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of third PIN number, push the service button one time. LED will start to flash again.
- if the LED will flash so many times which is the value of fourth PIN number, push the service button one time. If you entered correct PIN code, siren/buzzer sounds 2 times and LED diode lights permanently. Service mode is activated.

Deactivation of service mode

Turn on ignition and press the service button 2 times within 8 seconds. Turn off the ignition. Siren/buzzer sounds 2 times and LED diode lights no longer. Service mode is deactivated.

Also, service mode may be activated by the E-card - turn on ignition and put the E-card to antenna on 20 seconds.

IV. EMERGENCY DEACTIVATION

- Open the door and turn on the ignition.
- Push the valet button so many times, which is the value of the first number in PIN code within 8 seconds and then turn of the ignition.
- If the security mode is turned off, siren will sound 4 times and system will be disarmed.
- If the security mode is armed (function F4), LED will start to flash slowly. Enter the security mode.
- If you have entered correct PIN code, siren/buzzer will sound 4 times. System will be disarmed.

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